



## PATENT APPLICATION

Attorney Docket No. 12-1233

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Michael D. Lammert

Application No.: 10/016,693

Filed: October 30, 2001

For: VIA FORMATION IN POLYMERS

Group Art Unit: 2823

Examiner: Maldonado, Julio J.

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Attention: Assistant Commissioner for Patents, Washington, D.C. 20231, on this date.

April 21, 2003

Date

Julie A. Montgomery

## OFFICE ACTION RESPONSE TRANSMITTAL

Commissioner of Patents and Trademarks  
ATTENTION: Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

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Transmitted herewith is an amendment/office action response in the above-identified application.

1. ( ) A paper requesting correction/substitution of drawings is attached.

2. **Fee for Claims** (X) No additional fee is required.

The fee for additional claims in accordance with 37 C.F.R. §1.16(b)-(d) has been calculated as shown below:

				SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	Claims Remaining After Amendment	Highest No. Previously Paid for	Present Extra	Rate	Additional Fee	Rate	Additional Fee
Total		Minus	--	x 9	--	x 18	--
Indep.		Minus	--	x 42	--	x 84	--
Fee for Multiple Dependent Claims				+140		+280	--
TOTAL ADDITIONAL FEES					OR		-----

AMENDMENT TRANSMITTAL  
Attorney Docket No. 12-1233

3. **Method of Payment of Fees**

( ) Enclosed is our firm check in the amount of: \$ \_\_\_\_\_

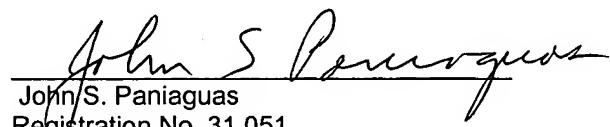
( ) Charge \$ \_\_\_\_\_ to Deposit Account No. 50-1214.

4. (X) The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1214. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1214. This sheet is filed in duplicate.

Respectfully Submitted,

April 21, 2003  
(Date)

By:

  
John S. Paniaguas  
Registration No. 31,051

KATTEN MUCHIN ZAVIS ROSENMAN  
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Chicago, Illinois 60661-3693  
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H5/a  
4/30/03  
John H.  
Docket No. 12-1233

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
Michael D. Lammert )  
Serial No.: 10/016,693 )  
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April 21, 2003 Julie A. Montgomery  
Date Julie A. Montgomery

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**OFFICE ACTION RESPONSE**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Official Action dated November 20, 2002, please enter the following amendment:

**IN THE CLAIMS:**

Please amend Claims 1 and 13 as set forth below:

1. (Amended) A process for forming vias in polymers with low dielectric constants, the process comprising the steps of:

- (a) providing a substrate layer;
- (b) forming a lower level layer on said substrate layer, selected from one or more of the group consisting of dielectric, metal and circuit devices;
- (c) forming a seed layer on top of said lower level layer;
- (d) forming a lower metal layer on said seed layer;